

SEQUENCE LISTING

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<120> METHODS AND COMPOSITIONS FOR MODULATING FERTILITY

<130> 9426-015-999

<140> 09/890,709

<141> 2001-07-31

<150> PCT/US00/02675

<151> 2000-02-01

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<170> PatentIn version 3.0

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<212> DNA

<213> Homo sapiens

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09/890709 PCT/PTO

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Ile	Cys	Phe	Val	Asp	Val	Ser	Thr	Leu	Asn	Val	Glu	Asp	Phe	Asn	Ser
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Lys	Gly	Ala	Ala	Gly	Pro	Arg	Ser	Glu	Gly	Glu	Leu	Asn	Leu	Glu	Asn
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Leu	Glu	Glu	Lys	Glu	Ile	Ile	Val	Ile	Lys	Asp	Thr	Glu	Lys	Gln	Asp
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Gln	Ser	Lys	Thr	Glu	Gly	Ser	Val	Cys	Leu	Phe	Lys	Gln	Ala	Pro	Ser
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Asp	Pro	Ile	Ser	Val	Leu	Asn	Trp	Leu	Leu	Asn	Asp	Leu	Gln	Lys	Tyr
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Asn	Asn	Asn	Gln	Ser	Pro	Ser	Asn	Pro	Ala	Thr	Lys	Ser	Pro	Ser	Asn	
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Gln	Arg	Ser	Val	Ala	Thr	Pro	Asp	Gly	Glu	Cys	Ser	Met	Asp	Asp	Leu	
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Ser	Tyr	Tyr	Val	Asn	Arg	Leu	Ser	Ser	Leu	Val	Ile	Gln	Met	Ala	Arg	
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Lys	Glu	Ile	Lys	Asp	Lys	Leu	Glu	Gly	Gly	Asn	Lys	Cys	Leu	His	His	
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Ser	Met	Tyr	Thr	Ser	Gly	Glu	Lys	Gly	Lys	Thr	Ser	Pro	Arg	Ser	Ala	
				245					250					255		
Val	Ser	Lys	Ile	Ala	Ser	Glu	Met	Ala	His	Glu	Ala	Val	Glu	Leu	Thr	
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Ser	Ser	Glu	Met	Arg	Gly	Asn	Gly	Glu	Glu	Gly	Arg	Asp	Gly	Arg	Lys	
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Thr	Phe	Leu	Tyr	Ser	Glu	Leu	Ser	Asn	Lys	Asn	Lys	Cys	Gly	Glu	Lys	
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Gln	Gln	Met	Cys	Pro	Lys	Asp	Ser	Lys	Glu	Phe	Ala	Asp	Ser	Ile	Ser	
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Lys	Gly	Leu	Met	Val	Tyr	Ala	Asn	Gln	Val	Ala	Ser	Asp	Met	Met	Val	
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Ser	Val	Met	Lys	Thr	Leu	Lys	Val	His	Ser	Cys	Gly	Lys	Pro	Ile	Pro	
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Ala	Cys	Val	Val	Leu	Lys	Arg	Val	Leu	Leu	Lys	His	Thr	Lys	Glu	Ile	
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Val	Ser	Asp	Leu	Ile	Asp	Ser	Cys	Met	Lys	Asn	Leu	His	Asn	Ile	Thr	
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Gly	Val	Leu	Met	Thr	Asp	Ser	Asp	Phe	Val	Ser	Ala	Val	Lys	Arg	Asn	
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Leu	Phe	Asn	His	Gly	Lys	Gln	Asn	Ala	Ala	Asp	Ile	Met	Glu	Ala	Met	
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Leu	Lys	Arg	Leu	Val	Ser	Ala	Leu	Leu	Gly	Glu	Lys	Lys	Glu	Thr	Lys	
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Ser	Gln	Ser	Leu	Ala	Tyr	Ala	Thr	Leu	Lys	Ala	Gly	Thr	His	Asp	Pro	
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Lys	Cys	Lys	Asn	Gln	Ser	Leu	Glu	Phe	Ser	Ala	Met	Lys	Ala	Glu	Met	
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09890709.013860

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 Thr Met Trp Asn Asn Gln Lys Gln Gly Thr Gln Gly Arg Val Pro Asn
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 Lys Val Cys Pro Ser Lys Asp Glu Lys Arg Glu Lys Ile Ser Pro Ser
 515 520 525
 Thr Asp Ser Leu Ala Lys Asp Leu Ile Val Ser Ala Leu Met Leu Ile
 530 535 540
 Gln Tyr His Leu Thr Gln Gln Ala Lys Gly Lys Asp Pro Cys Glu Glu
 545 550 555 560
 Glu Cys Pro Gly Ser Ser Met Gly Tyr Met Ser Gln Ser Ala Gln Tyr
 565 570 575
 Glu Lys Ser Gly Gly Gly Gln Ser Ser Lys Ser Leu Ser Met Lys His
 580 585 590
 Phe Glu Ser Arg Gly Ala Pro Gly Pro Ser Thr Cys Ala Lys Glu Asn
 595 600 605
 Gln Leu Glu Ser Gln Lys Met Asp Met Ser Asn Met Val Leu Ser Leu
 610 615 620
 Ile Gln Lys Leu Leu Ser Glu Ser Pro Phe Ser Cys Asp Glu Leu Ser
 625 630 635 640
 Glu Ser Glu Asn Lys Arg Cys Cys Asp Ser Arg Ser Lys Gln Ala Ala
 645 650 655
 Pro Val Ala Lys Arg Pro Glu Asp Gln Ser Gln Asp Ser Thr Glu Met
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 Asp Phe Ile Ser Gly Met Lys Gln Met Asn Arg Gln Phe Ile Asp Gln
 675 680 685
 Leu Val Glu Ser Val Met Lys Leu Cys Leu Ile Met Ala Lys Tyr Ser
 690 695 700
 Asn Asn Gly Ala Ala Leu Ala Glu Leu Glu Glu Gln Ala Ala Leu Ala
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 Ser Asn Gly Pro Arg Cys Gly Arg Glu Ala Val Met Ser Gln Ser Tyr
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 Pro Glu Thr Pro Gly Pro Glu Val Ile Val Asn Asn Gln Cys Ser Thr
 740 745 750
 Ser Asn Leu Gln Lys Gln Leu Gln Ala Val Leu Gln Trp Ile Ala Ala
 755 760 765
 Ser Gln Phe Asn Val Pro Met Leu Tyr Phe Met Gly Asp Asp Asp Gly
 770 775 780
 Gln Leu Glu Lys Leu Pro Glu Val Ser Ala Lys Ala Ala Glu Lys Gly
 785 790 795 800
 Tyr Ser Val Gly Asp Leu Leu Gln Glu Val Met Lys Phe Ala Lys Glu
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<213> Homo sapiens

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Leu Glu Lys Ser Thr Ala Glu Phe Gln Asp Val Arg Phe Lys Pro Gly
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Glu Ser Phe Gly Gly Glu Thr Ser Asn Ser Gly Asp Pro His Lys Gly
65 70 75 80

Phe Ser Val Asp Tyr Tyr Asn Thr Thr Thr Lys Gly Thr Pro Glu Arg
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Leu His Phe Glu Met Thr His Lys Glu Ile Pro Cys Gln Gly Pro Arg
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115 120 125

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Glu Lys Ile Asp Gly Ser Glu Asn Lys Cys Val Tyr Gln Ser Leu Tyr
145 150 155 160

Met Gly Asn Glu Pro Thr Pro Thr Lys Ser Leu Ser Lys Ile Ala Ser
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Glu Leu Val Asn Glu Thr Val Ser Ala Cys Ser Arg Asn Ala Ala Pro
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Asp Lys Ala Pro Gly Ser Gly Asp Arg Val Ser Gly Ser Ser Gln Ser
195 200 205

Pro Pro Asn Leu Lys Tyr Lys Ser Thr Leu Lys Ile Lys Glu Ser Thr
210 215 220

Lys Glu Arg Gln Gly Pro Asp Asp Lys Pro Pro Ser Lys Lys Ser Phe
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Phe Tyr Lys Glu Val Phe Glu Ser Arg Asn Gly Asp Tyr Ala Arg Glu
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 260 265 270
 Arg Pro Asp Asp Phe Thr Ala Ser Val Gly Glu Gly Ile Met Thr Tyr
 275 280 285
 Ala Asn Ser Val Val Ser Asp Met Met Val Ser Ile Met Lys Thr Leu
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 Lys Ile Gln Val Lys Asp Thr Thr Ile Ala Thr Ile Leu Leu Lys Lys
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 Val Leu Leu Lys His Ala Lys Glu Val Val Ser Asp Leu Ile Asp Ser
 325 330 335
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 Lys Ala Thr Asp Ile Met Asp Ala Met Leu Arg Lys Leu Tyr Asn Val
 370 375 380
 Met Phe Ala Lys Lys Val Pro Glu His Val Arg Lys Ala Gln Asp Lys
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 Ala Val Ser Tyr Ser Leu Ile Ser Met Lys Gly Met Gly Asp Pro Lys
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 Lys Met Tyr Ser Glu Pro Lys Ser Glu Glu Glu Thr Cys Ala Lys Thr
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203210 60206860

Pro Ile Val Gly Asp Gln Glu Gln Ala Glu Lys Lys Asp Leu Arg Ser
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Val Phe Phe Asn Ser Ile Arg Asn Leu Leu Ser Glu Thr Ile Phe Lys
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610 615 620

Asp Arg Lys Leu Cys Glu Arg Pro Leu Ala Ser Ser Pro Pro Arg Leu
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Tyr Glu Asp Asp Glu Thr Pro Gly Ala Leu Ser Gly Leu Thr Lys Met
645 650 655

Ala Val Ser Gln Ile Asp Gly His Met Ser Gly Gln Met Val Glu His
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675 680 685

Asp Ala Ser Leu Ala Glu Leu Gly Asp Asp Lys Leu Gly Asp Ala Ser
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Arg Leu Thr Ser Ala Phe Pro Asp Ser Leu Tyr Glu Cys Leu Pro Ala
705 710 715 720

Lys Gly Thr Gly Ser Ala Glu Ala Val Leu Gln Asn Ala Tyr Gln Ala
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Ala Ala Pro Thr Val Ile Val Ser Asn His Asn Leu Thr Asp Thr Val
755 760 765

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770 775 780

Leu Asn Val Pro Ile Leu Tyr Phe Ala Gly Asp Asp Glu Gly Ile Gln
785 790 795 800

Glu Lys Leu Leu Gln Leu Ser Ala Ala Ala Val Asp Lys Gly Cys Ser
805 810 815

Val Gly Glu Val Leu Gln Ser Val Leu Arg Tyr Glu Lys Glu Arg Gln
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Leu Met Val Asn Leu
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<212> PRT

<213> Homo sapiens

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EFFECT OF

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675 680 685
Asp Lys Leu Val Glu Ser Val Met Lys Leu Cys Leu Ile Met Ala Lys
690 695 700
Tyr Ser Asn Asp Gly Ala Ala Leu Ala Glu Leu Glu Glu Gln Ala Ala
705 710 715 720
Ser Ala Asn Lys Pro Asn Phe Arg Gly Thr Arg Cys Ile His Ser Gly
725 730 735
Ala Met Pro Gln Asn Tyr Gln Asp Ser Leu Gly His Glu Val Ile Val
740 745 750
Asn Asn Gln Cys Ser Thr Asn Ser Leu Gln Lys Gln Leu Gln Ala Val
755 760 765
Leu Gln Trp Ile Ala Ala Ser Gln Phe Asn Val Pro Met Leu Tyr Phe
770 775 780
Met Gly Asp Lys Asp Gly Gln Leu Glu Lys Leu Pro Gln Val Ser Ala
785 790 795 800
Lys Ala Ala Glu Lys Gly Tyr Ser Val Gly Gly Leu Leu Gln Glu Val
805 810 815
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Ala Arg Lys Gln Leu Leu Asp Trp Leu Leu Ala Asn Leu
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<212> PRT

<213> Homo sapiens

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Ile Asp

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<211> 18

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Ser Cys

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